## electric cylinder ESBF-BS-100-100-40P Part number: 574122

With ball screw, electrically actuated spindle that converts the rotary motion of the motor into linear motion of the piston rod.

## 

## **Data sheet**

Feature	Value	
Size	100	
Stroke	100 mm	
Piston rod thread	M20x1,5	
Reversing backlash	40 μm	
Spindle diameter	40 mm	
Spindle pitch	40 mm/U	
Max. angular deflection of piston rod +/-	0.5 deg	
Based on the standard	ISO 15552	
Assembly position	Any	
Piston-rod end	Male thread	
Motor type	Servomotor	
Position detection	For proximity sensor	
Design structure	Electro-cylinder with ball screw	
Spindle type	Ball screw spindle	
Protection against torque/guide	with plain-bearing guide	
Max. acceleration	25 m/s2	
Max. speed	1.34 m/s	
Repetition accuracy	±0,01 mm	
Duty cycle	100 %	
Corrosion resistance classification CRC	2 - Moderate corrosion stress	
PWIS conformity	VDMA24364 zone III	
Storage temperature	-20 60 °C	
Food-safe	See Supplementary material information	
Relative air humidity	0 - 95 %	
Protection class	IP40	
Ambient temperature	0 60 °C	
Max. drive torque	102.6 Nm	
Max. radial force at drive shaft	1,100 N	
Max. feed force Fx	14,500 N	
No-load driving torque	1 Nm	
Reference value for working load, horizontal	1,400 kg	
Reference value for working load, vertical	1,400 kg	
Mass moment of inertia JH per metre of stroke	20.372 kgcm2	
Mass moment of inertia JL per kg of working load	0.40528 kgcm2	
Mass moment of inertia, JO	6.1704 kgcm2	
Moving mass with 0 mm stroke	8,786 g	
Additional mass factor per 10 mm of stroke	132 g	
Basic weight for 0 mm stroke	11,123 g	
Additional weight per 10 mm stroke	193 g	
Mounting type	with internal (female) thread	
	or accessories	
Interface code, actuator	D100	
Materials note	Conforms to RoHS	



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Feature	Value
Material cover	Die-cast aluminium, coated
Material piston rod	High alloy steel, non-corrosive
Material screws	Galvanised steel
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy